



TECHNICAL DATA SHEET

TZBI-505

FOR INDUSTRIAL WASTEWATER BIOLOGY IN COOLER TEMPERATURES.

- Perform under both aerobic and anaerobic conditions;
- Biodegrade organic material comprised of proteins, starches, fats, carbohydrates and select hydrocarbons.

BIOAUGMENTATION WITH TZBI-505 CAN:

- Reduce sludge;
- Reduce scum;
- Reduce odours;
- Improve effluent;
- Fast start-up.

SPECIFICATIONS

Description	Tan color, free-flowing granular powder
Packaging	250g water-soluble packages; 20kg plastic pail
Stability	Max. loss of 1 log/yr
pH	6.0 – 8.5
Bulk Density	0.5 – 0.61 g/cm ³
Moisture Content	15%
Nutrient Content	Biological nutrients and stimulants
Plate Count	5 billion per gram
Storage and Handling	DO NOT FREEZE! Store in a cool dry location. Do not inhale dusts. Avoid excessive skin contact. See MSDS.



APPLICATION INSTRUCTIONS

TREATMENT PLANTS:

Flow Rate	Initial Dosage	Maintenance**
Up to 0.1 L/sec	0.5 kg/day for 3 days	0.5 kg/week
Up to 0.5 L/sec	0.5 kg/day for 3 days	1.0 kg/week
Up to 2 L/sec	5 kg*	1.5 kg/week
Up to 5 L/sec	8 kg*	2.0 kg/week
Up to 25 L/sec	15 kg*	0.25 kg/day
Up to 50 L/sec	25 kg*	0.5 kg/day
Up to 100 L/sec	50 kg*	1.0 kg/day
Up to 500 L/sec	50 kg/100 L/sec*	1 kg/100 L/sec/day
Up to 1200 L/sec	50 kg/100 L/sec*	0.75kg/100 L/sec/day
Up to 10 000 L/sec	30 kg/100 L/sec*	0.5 kg/100 L/sec/day

*Spread this initial dosage out over the course of 10 days.

**Add as regularly as possible. If one day is missed, double the daily dosage the next day.

Dosage rates will vary with flow rates, retention times and system variations. The rates above are for typical, well-maintained system.

ACTIVATED SLUDGE SYSTEMS:

Activated Sludge Systems include various process flow sheets: e.g. extended aeration, contact stabilization, step aeration, oxygen activated sludge.

The application rate for all products is based on the average daily flow rate to the aeration basin, excluding the return sludge stream.